PATENT COOPERATION TP TY

To:

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commissioner

US Department of Commerce

United States Patent and Trademark

Office, PCT

2011 South Clark Place Room

CP2/5C24

Arlington, VA 22202

Date of mailing (day/month/year) 29 March 2001 (29.03.01)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office		
International application No.	Applicant's or agent's file reference		
PCT/US00/04709	CM-2140/VB		
International filing date (day/month/year)	Priority date (day/month/year)		
24 February 2000 (24.02.00)	28 February 1999 (28.02.99)		
Applicant			
O'TOOLE, Edel et al			

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	08 January 2001 (08.01.01)
	in a notice effecting later election filed with the International Bureau on:
İ	
2.	The election was
	X was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Beate Giffo-Schmitt		
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38		

(19) World Intellectual Property Organization International Bureau



1 (1868 | 1868) | 1 (1868) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (1869) | 1 (18

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- (81) Designated States (national): AE, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

- With international search report.
- (88) Date of publication of the international search report: 28 June 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

151545 A3

(54) Title: HAIR CARE COMPOSITIONS

(57) Abstract: According to the present invention there is provided a hair care composition comprising at least one tyrosine compound and at least one other amino acid compound selected from tryptophan compounds, histidine compounds and lysine compounds. The compositions of the present invention can improve the strength and condition of the hair.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K7/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

Further documents are listed in the continuation of box C.

Category "	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 00 51556 A (GUMMER CHRISTOPHER LAWRENCE; MEREDITH PAUL (GB); TOOLE EDEL 0 (GB)) 8 September 2000 (2000-09-08) claims; examples	1-10
X	GB 987 800 A (SHISEIDO COMPAGY LIMITED) 31 March 1965 (1965-03-31) claims; examples 1,4,5	1,2,5,6,
X	US 5 458 881 A (GACON PAUL ET AL) 17 October 1995 (1995-10-17) examples 6,7	1,2,5-8, 10
X	WO 93 19725 A (HENKEL KGAA ;HOEFFKES HORST (DE); MOELLER HINRICH (DE); BUETTNER R) 14 October 1993 (1993-10-14) claims	1,5,6,10

Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filling date L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filling date but later than the priority date claimed	 "T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X' document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y' document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&' document member of the same patent family 		
Date of the actual completion of the international search	Date of mailing of the international search report		
8 January 2001	15/01/2001		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Couckuyt, P		

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Patent family members are listed in annex.





	Ition) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
(WO 97 01323 A (SCHWARZKOPF GMBH HANS; DEUTZ HERBERT (DE); AKRAM MUSTAFA (DE); KLE) 16 January 1997 (1997-01-16) page 2, paragraph 8 -page 3, paragraph 1	1,5,6,10

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				DE	1492121 A	14-05-1969
				FR	1382068 A	02-04-1965
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				DE	69200959 T	11-05-1995
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				WO	9221318 A	10-12-1992
				JP	27 05848 B	28-01-1998
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				WO	9701322 A	16-01-1997
				EP	0835093 A	15-04-1998
				JP	11508542 T	27-07-1999
				US	6129770 A	10-10-2000

PATENT COOPERATION



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's c	r agent's file reference		See Notific	cation of Transmittal of International
CM2140/\	/B	FOR FURTHER ACTION	Preliminar	y Examination Report (Form PCT/IPEA/416)
International	application No.	International filing date (day/mo	nth/year)	Priority date (day/month/year)
PCT/US0	0/04709	24/02/2000		14/06/1999
International A61K7/06		or national classification and IPC		
Applicant				
THE PRO	CTER & GAMBLE C	OMPANY et al.		
1. This ir and is	ternational preliminary transmitted to the appli	examination report has been preparant according to Article 36.	red by this Inte	ernational Preliminary Examining Authorit
2. This R	EPORT consists of a to	otal of 6 sheets, including this cover	r sheet.	
be (s	een amended and are the ee Rule 70.16 and Sec	ne basis for this report and/or shee tion 607 of the Administrative Instr	s containing re	on, claims and/or drawings which have ectifications made before this Authority the PCT).
These	annexes consist of a to	otal of sheets.		
				
3. This re	eport contains indication	ns relating to the following items:		
	_			
1	☐ Basis of the repo	π		
 	☐ Priority☐ Non-establishme	nt of opinion with regard to novelty	inventive ster	and industrial applicability
IV	☐ Lack of unity of ir			,
V	☑ Reasoned statem		to novelty, inv	ventive step or industrial applicability;
VI	☐ Certain docume			
VII		the international application		•
VIII		ons on the international application	l	
1				
Date of sub	mission of the demand	Dat	of completion o	of this report
08/01/20	01	05.0	7.2001	
Name and	mailing address of the inter	national Aut	norized officer	ALGO ES MIZA
	examining authority:			E M
	European Patent Office D-80298 Munich	Kli	er, E	

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/04709

I.	Bas	is f the rep rt					
1.	the and	receivina Office in re	ents of the international application (Replacement sheets which have been furnished to esponse to an invitation under Article 14 are referred to in this report as "originally filed" this report since they do not contain amendments (Rules 70.16 and 70.17)):				
	1-50) 8	as originally filed				
	Clai	ms, No.:					
	1-10) 8	as originally filed				
2.	With lang	n regard to the lang u Juage in which the in	tage, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.				
	The	se elements were av	vailable or furnished to this Authority in the following language: , which is:				
			anslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of pub	olication of the international application (under Rule 48.3(b)).				
		the language of a tr 55.2 and/or 55.3).	anslation furnished for the purposes of international preliminary examination (under Rule				
3.	With inte	n regard to any nucl ornational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
		contained in the inte	ernational application in written form.				
		filed together with the	ne international application in computer readable form.				
		furnished subseque	ntly to this Authority in written form.				
		furnished subseque	ntly to this Authority in computer readable form.				
			the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.				
		The statement that listing has been furn	the information recorded in computer readable form is identical to the written sequence nished.				
4.	The	The amendments have resulted in the cancellation of:					
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
_		This report has bee	n established as if (some of) the amendments had not been made, since they have been				

considered to go beyond the disclosure as filed (Rule 70.2(c)):

International application No. PCT/US00/04709

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 7-9

No:

Claims 1-6,10

Inventive step (IS)

Yes:

Claims

No: Claims 1-10

Industrial applicability (IA)

Yes:

Claims 1-10

No: Claims

2. Citations and explanations see separate sheet

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

R It m V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive st p or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: GB-A-987800

D2: US-A-5458881

D3: WO-A-9319725

D4: WO-A-9701323

- 1. The subject-matter of claims 1 6 and 10 is not novel (Art. 33(2) EPC).
- 1.1. D1 discloses stable hair care compositions comprising L-tyrosine, L-histidine and L-lysine and esters of amino acids (see examples 4, 5, 7; page 1, lines 22 28; claims). Thus, the subject-matter of independent claims 1 and 10 is known.
- 1.2. D2 describes protein hydrolysates derived from cereal protein hydrolysates. These hydrolysates are further acetylated. Wheat protein contains the claimed amino acids (see column 2, lines 37 50; examples 1, 2, 6, 7; claim 13). These compositions are suitable as hair care compositions and are used in shampoos. Consequently, the subject-matter of independent claims 1 and 10 is not novel.
- 1.3. Table V of D4 discloses a keratin hydrolysate as a care composition for hair. In addition, the description (on page 5, second but last paragraph) of the application gives the impression that also peptides comprising the amino acid compounds fall under the definition of the amino acid compound (such as tyrosine compound). The keratin hydrolysate should contain the claimed amino acid compounds. Thus, the subject-matter of the independent claims 1 and 10 is disclosed in D4.
- 1.4. The subject-matter of dependent claims 2 6 is also known from the above cited documents.
- 1.5. D3 does not disclose the combination of tyrosine with at least one other amino acid compound selected from tryptophan compounds, histidine compounds and

EXAMINATION REPORT - SEPARATE SHEET

lysine compounds. Therefore, the subject-matter of claims 1 - 10 is not disclosed in D3

The subject-matter of claims 1 - 10 does not comply with Art. 33(3) PCT. 2.

D4 teaches that amino acid (derivatives) improve the strength and condition of the hair (see claims; page 2, third and fourth paragraphs). Preferred care compositions are tyrosine and lysine (see table 1).

A skilled person applies these compounds in hair care compositions.

The application does not contain any data that the combination of at least one tyrosine compound with at least one other amino acid compound selected from tryptophan compounds, histidine compounds and lysine compounds results in an unexpected effect.

Without any comparative data an inventive step cannot be acknowledged.

Alleged advantages should be supported by sufficient evidence where comparison is made with highly pertinent prior art.

In assessing the inventive step of a combination of features consideration must be given to a feature only if the applicant has provided evidence that it contributes either independently or in conjunction with one or more of the other features, to the solution of the problem set in the description.

Re Item VI Certain documents cited

Certain published documents (Rule 70.10)

Application No	Publication date (day/month/year)	Filing date	Priority date (valid claim)	
Patent No		(day/month/year)	(day/month/year)	
WO-A-0051556 (D5)	08.09.00	24.02.00	28.02.99	

Hair care compositions comprising four or more amino acid compounds selected from (iv) tyrosine compounds, (i) histidine compounds, (ii) lysine compounds, (v) tryptophan compounds, (iii); (vi)...are claimed . Only one selection is necessary to arrive at the subject-matter of claims 1, 4 - 6 and 10.

R It m VII

Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1, D2, D3 and D5 is not mentioned in the description, nor are these documents identified therein.

Re Item VIII

Certain observations on the international application

The description refers to formula (i) to specify the meaning of tyrosine compounds. Every Xn wherein n is not 0 and Xm wherein m is not 1 cannot be regarded as a tyrosine.

The same argumentation applies to the definitions of "tryptophan", "histidine" and "lysine compounds". These definitions render the scope of protection unclear.